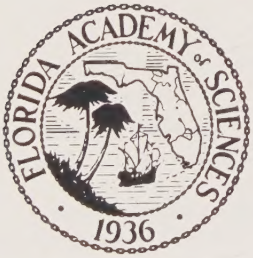
Florida Scientist

QUARTERLY JOURNAL
of the
FLORIDA ACADEMY OF SCIENCES

VOLUME 51

DEAN F. MARTIN
Editor

BARBARA B. MARTIN
Co-Editor



Published by the

FLORIDA ACADEMY OF SCIENCES, INC.
Orlando, Florida
1988

The Florida Scientist continues the series formerly issued as the Quarterly Journal of the Florida Academy of Sciences. The Annual Program Issue is published independently of the journal and is issued as a separately paged Supplement.

Copyright© by the Florida Academy of Sciences, Inc. 1988

CONTENTS OF VOLUME 51

Number 1

Spawning Season of Common Snook Along the East Central Florida Coast ..... John W. Tucker, Jr. and Silas W. Campbell 1

The Yeast Community Associated with Decaying *Opuntia stricta* (Haworth) in Florida with Regard to the Moth *Cactoblastic cactorum* (Berg) ..... William T. Starmer, Virginia Aberdeen and Marc-Andre LaChance 7

Osteology of the Prehistoric Boynton Beach Indians ..... M. Yaşar İşcan and Morton H. Kessel 12

Density and Dispersion Estimates for Sea Urchins in a South Florida Seagrass Community ..... Jeremy R. Montague, L. Ortiz, Alexandra Arguelles, Justina M. Millan, and Lynette Cardoch 19

Hermaphroditism in the Asteroid *Luidia clathrata* (Say) .... Paula F. Dehn 23

Social Factors, Health Knowledge, and Health Attitudes: Participation in a Cardiovascular Risk Reversal Program ..... Curtis W. Wienker and Travis J. Northcutt, Jr. 28

Adoption-Related Counseling Services in the Tampa Bay Area: A Needs Assessment ..... Marie-Anne G. Johnson 35

Vitamin C and Dental Healing ..... Robert A. Halberstein and Glenn M. Abrahmsohn 41

Water Quality Characteristics of a Southeast Florida Sewage Treatment and Bioeffects Laboratory ..... Eugene F. Corcoran, Melvin S. Brown, and Samuel C. Snedaker 49

Review 55

The Ethnography of an Extended Care Treatment Residence for Homeless Men Who Are Chronic Alcoholics ..... Lois Bright Randolph 56

Review ..... Richard P. Wunderlin 62

Review ..... Patricia M. Dorris 63

Number 2

Desiccation and Cryptic Nest Flooding as Probable Causes of Egg Mortality in the American Crocodile, *Crocodylus acutus*, in Everglades National Park, Florida ..... Frank J. Mazzotti, James A. Kushlan, and Ann Dunbar-Cooper 65

The Childbirth Experience: An Amalgam of Cultural and Biological Factors ..... Virginia T. Kiefert 72

Population Trends in the Phytoplankton and Zooplankton of the Upper and Middle St. Johns River, Florida, 1983-1984 ..... James R. Yount and Thomas V. Belanger 76

Age Factors Versus Land Characteristics in Understanding Heart and Colorectal Cancer Death Rates Among Florida Counties ..... Marion L. Jackson and Dean F. Martin 86

Airborne Algae from North-Central Florida ..... Beth A. North and Joseph S. Davis 92

Some Alternative Interpretations of Safety Harbor Burial Mounds ..... Jeffrey M. Mitchem 100

Geochelone carbonaria (Reptilia: Testudines) in the West Indies ..... Ellen J. Censky 108

Utilization of Triploid Grass Carp in Sewage-Retention Ponds for Control of Floating Vegetation ..... Boyd Z. Thompson, Jeffrey L. Underwood, and Rue S. Hestand III 115

First Records of a Maple Clearwing Moth, *Synanthedon acerrubri* (Family Sesiidae) in Florida ..... Larry N. Brown 119

Notes on the Occurrence of Rays *(Elasmobranchii*, Batoidea) in the Indian River Lagoon System, Florida ..... Thomas H. Schmid, Llewellyn M. Ehrhart, and Franklin F. Snelson, Jr. 121

NUMBERS 3/4

Effects of Prescribed Burning on Herbaceous Vegetation and Pocket Gophers *(Geomys pinetis)* in a Sandhill Community ..... Cyndi A. Gates and George W. Tanner 129
Purification and Activity of *Ptychodiscus brevis* (Red Tide) Toxin Associated with Respiratory Problems ..... Miquelangelo J. Perez-Cruet, Joseph J. Krzanowski and Dean F. Martin 140
The Anastasia Island Cotton Mouse (Rodentia: *Peromyscus gosypinus anastasae)* May Be Extinct ..... Stephen R. Humphrey, William H. Kern, Jr., and Mark E. Ludlow 150
A Modified Live Trap for the Capture of Southeastern Pocket Gophers ..... Cyndi A. Gates, George W. Tanner, and Brian K. Gates 156
Correlations Among Egg Weight, Chick Weight, and Yolk Sac Weight in Bobwhite Quail *(Colinus virginianus)* ..... P. A. Skewes, H. R. Wilson, and F. B. Mather 159
Effects of Stocking Density and Food Quality on Growth of Young Snook, *Centropomus undecimalis*, in Aquaria ..... Mary Higby and Alfred Beulig 163
Archaeological Testing at the Anders Site: A Weeden Island-Related Midden on Boca Ciega Bay, St. Petersburg, Florida ..... Robert J. Austin 172
Range Extension of *Ipomoea turbinata* Lag. (Convulvulaceae) to Southern Florida ..... Daniel F. Austin and Richard K. Jansson 182
Review ..... Walter Kingsley Taylor 183
Fungal Filaments in *Millepora Complanata* Lamarck, 1816 (Cnidaria: Hydrozoa) After Mass Expulsion of Zooxanthellae ..... D. TeStrake, W. C. Jaap, E. Truby, and R. Reese 184
Index, Volume 51 189